

5658759

08/633013

O.G. FIG.	—
CLASS	735691
SUBCLASS	1
APPROVED BY	MOORE

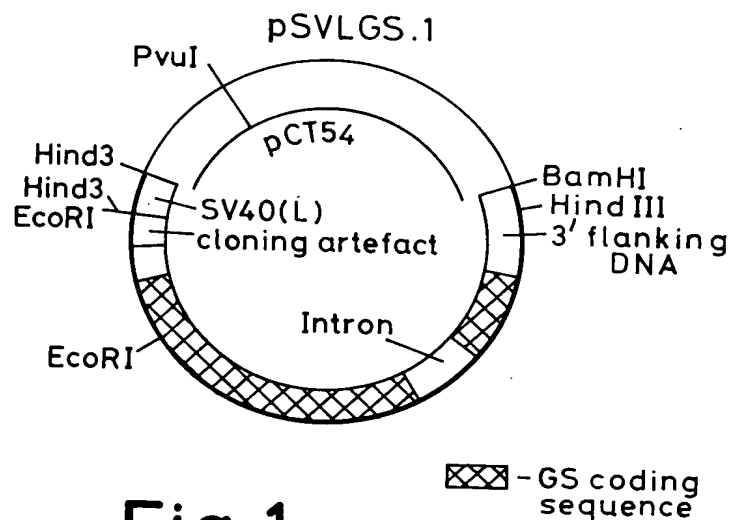


Fig. 1

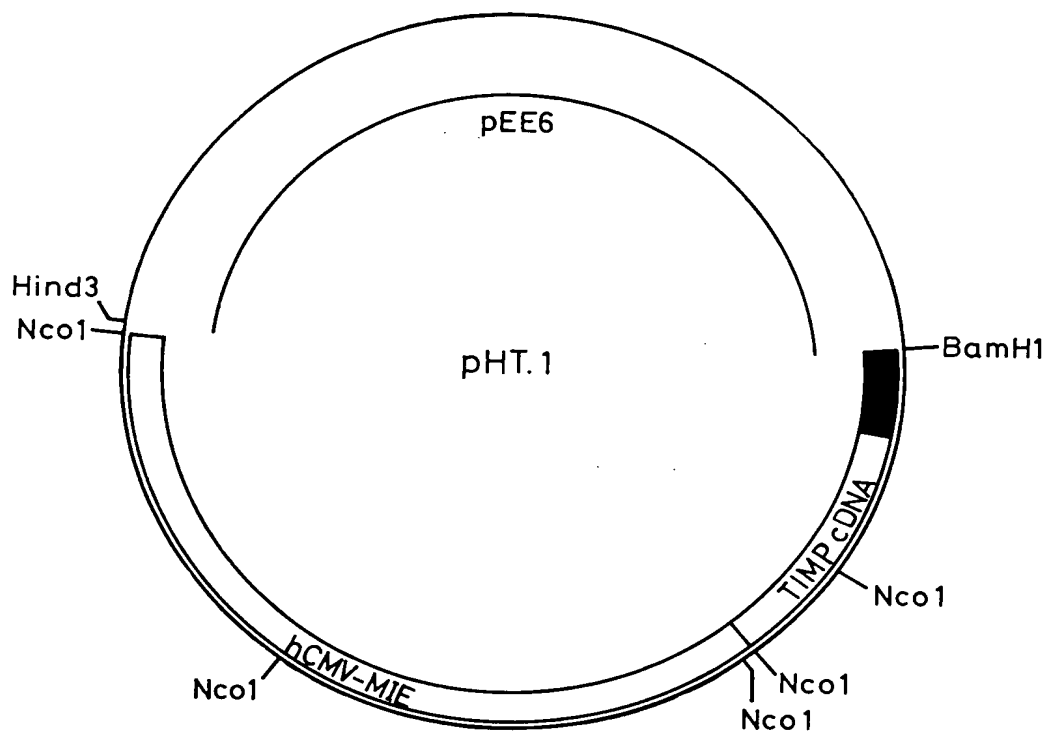


Fig. 2

APPROVED BY CRAFTSMAN	O.C. FIG.	
	CLASS	SUBCLASS

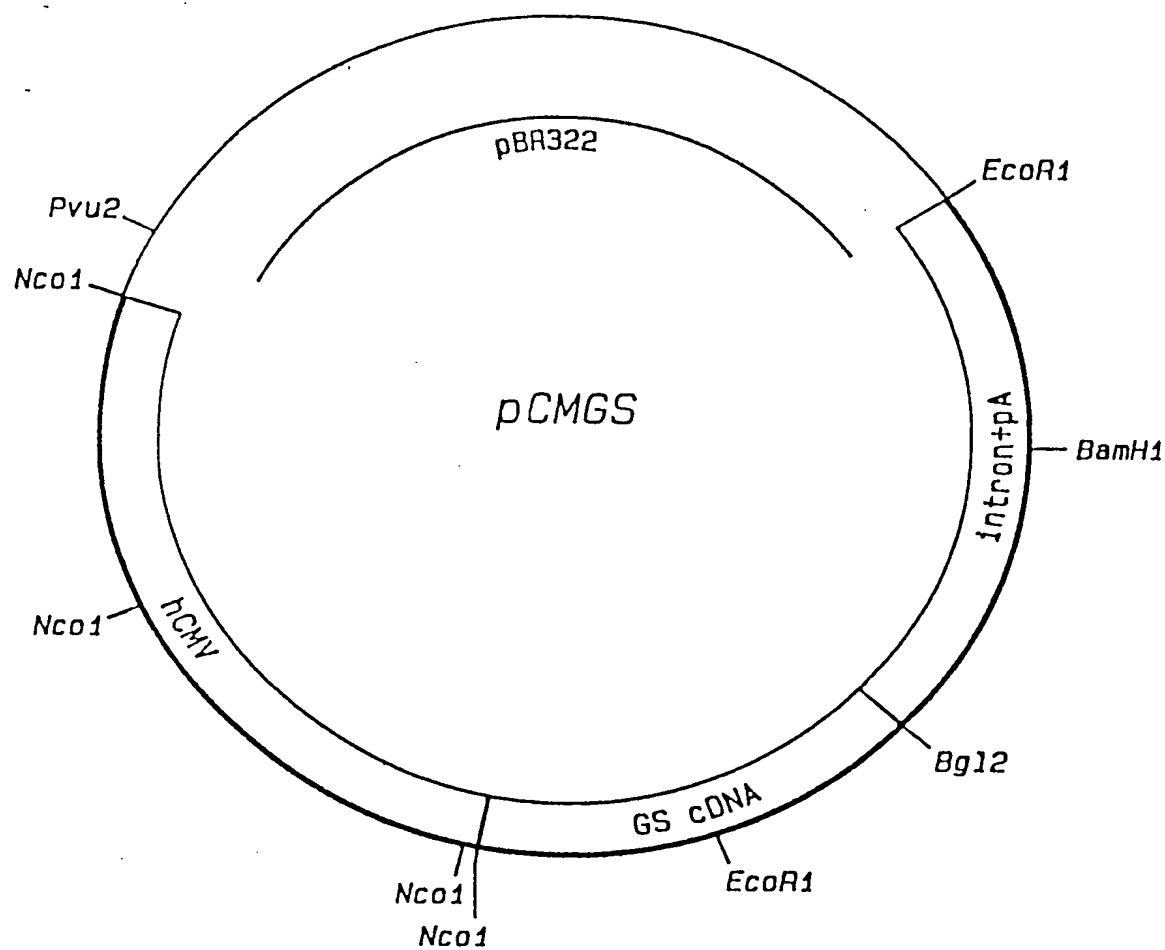


Fig. 3

O.G. FIG.		SUBCLASS
CLASS		
APPROVED	BY	DATE

DNS	p	T	AM
sct	s	t	fl
aoy	t	3	lu
111	1	2	31
//			/

```

1  CCATGGTGTCAAGGACGGTGACTGCAGTGAATAATAAAATGTGTGTTTGTCCGAAATACG
   +-----+-----+-----+-----+-----+-----+
61 GGTACCACAGTTCCTGCCACTGACGTCACCTATTATTTTACACACAAACAGGCTTTATGC
   +-----+-----+-----+-----+-----+-----+
   CGTTTTGAGATTTCTGTGCGCCGACTAAATTCATGTGCGCGGATAGTGGTGTGTTTATCGCCG
61 +-----+-----+-----+-----+-----+-----+ 120
   GCAAAACTCTAAAGACAGCGGCTGATTTAAGTACAGCGCGCTATCACCACAAATAGCGGC

                                     C
                                     l
                                     a
                                     1
121 ATAGAGATGGCGATATTGGAAAAATCGATATTTGAAAAATATGGCATATTGAAAAATGTCGC
   +-----+-----+-----+-----+-----+-----+ 180
   TATCTCTACCGCTATAACCTTTTTAGCTATAAACTTTTATACCGTATAACTTTTACAGCG

                                     E
                                     c
                                     o
                                     r
                                     v
181 CGATGTGAGTTTCTGTGTAAGTATCGCCATTTTTCCAAAAGTGATTTTTGGGCATAC
   +-----+-----+-----+-----+-----+-----+ 240
   GCTACACTCAAAGACACATTGACTATAGCGGTAAAAAGGTTTTCACTAAAAACCCGTATG

                                     E
                                     c
                                     o
                                     r
                                     v
241 GCGATATCTGGCGATAGCGGCTTATATCGTTTACGGGGGATGGCGATAGACGACTTTGGT
   +-----+-----+-----+-----+-----+-----+ 300
   CGCTATAGACCGCTATCGCCGAATATAGCAAATGCCCCCTACCGCTATCTGCTGAAACCA

   GACTTGGGCGATTCTGTGTGTCGCAAATATCGCAGTTTCGATATAGGTGACAGACGATAT
301 +-----+-----+-----+-----+-----+-----+ 360
   CTGAACCCGCTAAGACACACAGCGTTTATAGCGTCAAAGCTATATCCACTGTCTGCTATA

                                     C BH      N C
                                     f aa      s l
                                     r le      i a
                                     1 11      1 1
                                     /
361 GAGGCTATATCGCCGATAGAGGCGACATCAAGCTGGCACATGGCCAATGCATATCGATCT
   +-----+-----+-----+-----+-----+-----+ 420
   CTCCGATATAGCGGCTATCTCCGCTGTAGTTCGACCGTGTACCGGTTACGTATAGCTAGA

```

Fig. 4A

O.G. FIG.	SUBCLASS
	CLASS
APPROVED BY	DATE

S C BH  
 s f aa  
 p r le  
 1 1 11  
 /

421 ATACATTGAATCAATATTGGCCATTAGCCATATTATTCATTGGTTATATAGCATAAATCA 480  
 -----+-----+-----+-----+-----+-----+-----+-----+  
 TATGTAACCTTAGTTATAACCGGTAATCGGTATAATAAGTAACCAATATATCGTATTTAGT  
 S C BH  
 s f aa  
 p r le  
 1 1 11  
 /

481 ATATTGGCTATTGGCCATTGCATACGTTGTATCCATATCATAATATGTACATTTATATTG 540  
 -----+-----+-----+-----+-----+-----+-----+-----+  
 TATAACCGATAACCGGTAACGTATGCAACATAGGTATAGTATTATACATGTAAATATAAC

H  
 i M S  
 n m p  
 c e e  
 2 1 1

541 GCTCATGTCCAACATTACCGCCATGTTGACATTGATTATTGACTAGTTATTAATAGTAAT 600  
 -----+-----+-----+-----+-----+-----+-----+-----+  
 CGAGTACAGGTTGTAATGGCGGTACAACCTGTAACCTAATAACTGATCAATAATTATCATT  
 CAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCGCGGTTACATAACTTACGG  
 601 -----+-----+-----+-----+-----+-----+-----+-----+ 660  
 GTTAATGCCCCAGTAATCAAGTATCGGGTATATACCTCAAGGCGCAATGTATTGAATGCC

B A A  
 g h a  
 l a t  
 1 2 2

661 TAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCCGCCCATGACGTCAATAATGACGT 720  
 -----+-----+-----+-----+-----+-----+-----+-----+  
 ATTTACCGGGCGGACCGACTGGCGGGTGTCTGGGGCGGGTAACTGCAGTTATTACTGCA

A A  
 h a  
 a t  
 2 2

721 ATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTAC 780  
 -----+-----+-----+-----+-----+-----+-----+-----+  
 TACAAGGGTATCATTGCGGTTATCCCTGAAAGGTAAGTGCAGTTACCCACCTCATAAATG

B N  
 g d  
 l e  
 1 1

781 GGTAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTG 840  
 -----+-----+-----+-----+-----+-----+-----+-----+  
 CCATTTGACGGGTGAACCGTCATGTAGTTCACATAGTATACGGTTCATGCGGGGGATAAC

Fig. 4 B

O.G. FIG.	SUBCLASS
CLASS	BY
APPROVED	DATE

A A B  
 h a g  
 a t l  
 2 2 1  
 ACGTCAATGACGGTAAATGGCCCGCTGGCATTATGCCCAGTACATGACCTTATGGGACT  
 841 -----+-----+-----+-----+-----+-----+-----+ 900  
 TGCAGTTACTGCCATTTACCGGGCGGACCGTAATACGGGTCATGTACTGGAATACCCTGA  
  
 S  
 n  
 a DNS  
 B sct  
 1 aoy  
 111  
 //  
 TTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTT  
 901 -----+-----+-----+-----+-----+-----+-----+ 960  
 AAGGATGAACCGTCATGTAGATGCATAATCAGTAGCGATAATGGTACCACTACGCCAAAA  
  
 GGCAGTACATCAATGGGCGTGGATAGCGGTTTGA CTCACGGGGATTTC AAGTCTCCACC  
 961 -----+-----+-----+-----+-----+-----+-----+ 1020  
 CCGTCATGTAGTTACCCGCACCTATCGCCAAACTGAGTGCCCTAAAGGTT CAGAGGTGG  
  
 A A B  
 h a a  
 a t n  
 2 2 1  
 CCATTGACGTCAATGGGAGTTTGT TTTGGCACCAAAATCAACGGGACTTTCCAAAATGTC  
 1021 -----+-----+-----+-----+-----+-----+-----+ 1080  
 GGTAAGTGCAGTTACCCTCAAACAAAACCGTG GTTTTAGTTGCCCTGAAAGGTTTTACAG  
  
 GTAACAAC TCCGCCCCATTGACGCAAATGGGCGGTAGGCGGTGTACGGTGGGAGGTCTATA  
 1081 -----+-----+-----+-----+-----+-----+-----+ 1140  
 CATTGTTGAGGCGGGGTAAGTGC GTTTACCCGCCATCCGCACATGCCACCCTCCAGATAT  
  
 BH  
 BssS  
 apia  
 n1Ac  
 2211  
 ///  
 TAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCCTGGAGACGCCATCCACGCTGTTTTG  
 1141 -----+-----+-----+-----+-----+-----+-----+ 1200  
 ATTCGTCTCGAGCAAATCACTTGGCAGTCTAGCGGACCTCTGCGGTAGGTGCGACAAAAC  
  
 N  
 B D BCGsSX  
 b s gfdpam  
 v a lriBca  
 2 1 112223  
 ////  
 ACCTCCATAGAAGACACCGGGACCGATCCAGCCTCCGCGGCCGGGAACGGTGCATTGGAA  
 1201 -----+-----+-----+-----+-----+-----+-----+ 1260  
 TGGAGGTATCTTCTGTGGCCCTGGCTAGGTGCGAGGCGCCGGCCCTTGCCACGTAACTT

Fig. 4C

O.G. FIG.	SUECLASS
	CLASS
BY	DATE

CGCGGATTCCCCGTGCCAAGAGTGACGTAAGTACCGCCTATAGAGTCTATAGGCCACCC  
 1261-----+-----+-----+-----+-----+-----+-----+ 1320  
 GCGCCTAAGGGGCACGGTTCTCACTGCATTTCATGGCGGATATCTCAGATATCCGGGTGGG

B N  
 Ss N sS  
 tt s pp  
 yX i Hh  
 11 1 11

CTTGGCTTCTTATGCATGCTATACTGTTTTTGGCTTGGGGTCTATACACCCCCGCTTCC  
 1321-----+-----+-----+-----+-----+-----+ 1380  
 GGAACCGAAGAATACGTACGATATGACAAAAACCGAACCCAGATATGTGGGGGCGAAGG

E  
 S  
 P  
 1

TCATGTTATAGGTGATGGTATAGCTTAGCCTATAGGTGTGGGTATTGACCATTATTGAC  
 1381-----+-----+-----+-----+-----+-----+ 1440  
 AGTACAATATCCACTACCATATCGAATCGGATATCCACACCCAATAACTGGTAATAACTG

P  
 f  
 l  
 M  
 1

CACTCCCCCTATTGGTGACGATACTTTCCATTACTAATCCATAACATGGCTCTTTGCCACA  
 1441-----+-----+-----+-----+-----+-----+ 1500  
 GTGAGGGGATAACCACTGCTATGAAAGGTAATGATTAGGTATTGTACCGAGAAACGGTGT

E  
 C  
 O  
 5  
 7

ACTCTCTTTATTGGCTATATGCCAATACACTGTCCTTCAGAGACTGACACGGACTCTGTA  
 1501-----+-----+-----+-----+-----+-----+ 1560  
 TGAGAGAAATAACCGATATACGGTTATGTGACAGGAAGTCTCTGACTGTGCCTGAGACAT

E  
 C  
 O  
 3  
 1

TTTTACAGGATGGGGTCTCATTTATTATTACAAATTCACATATACAACACCACCGTCC  
 1561-----+-----+-----+-----+-----+-----+ 1620  
 AAAATGTCCTACCCCAGAGTAAATAATAAATGTTTAAGTGTATATGTTGTGGTGGCAGG

B X A A  
 s h v f  
 p o a 1  
 1 2 1 3  
 2

CCAGTGCCCGCAGTTTTTATTAAACATAACGTGGGATCTCCACGCGAATCTCGGGTACGT  
 1621-----+-----+-----+-----+-----+-----+ 1680  
 GGTACGGGCGTCAAAAATAATTTGTATTGCACCCTAGAGGTGCGCTTAGAGCCCATGCA

Fig. 4D

O.G. FIG.	SUBCLASS
	CLASS
BY	DEFINITION

B  
S  
p  
M  
2

B  
Bs  
ap  
n1  
22  
/

B  
Bs  
ap  
n1  
22  
/

1681 GTTCCGGACATGGGCTCTTCTCCGGTAGCGGCGGAGCTTCTACATCCGAGCCCTGCTCCC 1740  
 CAAGGCCTGTACCCGAGAAGAGGCCATCGCCGCCTCGAAGATGTAGGCTCGGGACGAGGG

G  
S  
u  
1

H  
a  
e  
1

1741 ATGCCTCCAGCGACTCATGGTCGCTCGGCAGCTCCTTGCTCCTAACAGTGAGGCCAGAC 1800  
 TACGGAGGTCGCTGAGTACCAGCGAGCCGTCGAGGAACGAGGATTGTACCTCCGGTCTG

D  
S  
a  
1

1801 TTAGGCACAGCACGATGCCCACCACCAGTGTGCCGCACAAGGCCGTGGCGGTAGGGT 1860  
 AATCCGTGTCGTGCTACGGGTGGTGGTGGTCACACGGCGTGTTCGGGCACCGCCATCCCA

BH  
ABsgS  
vapia  
an1Ac  
12211  
///

N  
S  
p  
B  
2

A B  
f b  
1 v  
2 2

1861 ATGTGTCTGAAAATGAGCTCGGGGAGCGGGCTTGACCGCTGACGCATTTGGAAGACTTA 1920  
 TACACAGACTTTTACTCGAGCCCCCTCGCCGAACGTGGCGACTGCGTAAACCTTCTGAAT

N  
S  
p  
B  
2

N  
sP  
pv  
Bu  
22  
/

1921 AGGCAGCGGCAGAAGAAGATGCAGGCAGCTGAGTTGTTGTGTTCTGATAAGAGTCAGAGG 1980  
 TCCGTGCGCGTCTTCTTCTACGTCCGTCGACTCAACAACACAAGACTATTCTCAGTCTCC

H  
iH  
np  
ca  
21  
/

S  
c  
a  
1

1981 TAACTCCCGTTGCGGTGCTGTTAACGGTGGAGGGCAGTGTAGTCTGAGCAGTACTCGTTS 2040  
 ATTGAGGGCAACGCCACGACAATTGCCACCTCCCGTCACATCAGACTCGTCATGAGCAAC

Fig. 4E

O.G. FIG.	SUBCLASS	
	CLASS	
BY		

B B  
S S  
S S  
H H  
2 2

DNS  
sct  
aoy  
111  
//

2041-----+-----+-----+-----+-----+ 2100  
CTGCCGCGCGCGCCACCAGACATAATAGCTGACAGACTAACAGACTGTTTCCTTTCCATGG  
GACGGCGCGCGCGGTGGTCTGTATTATCGACTGTCTGATTGTCTGACAAGGAAAGGTACC

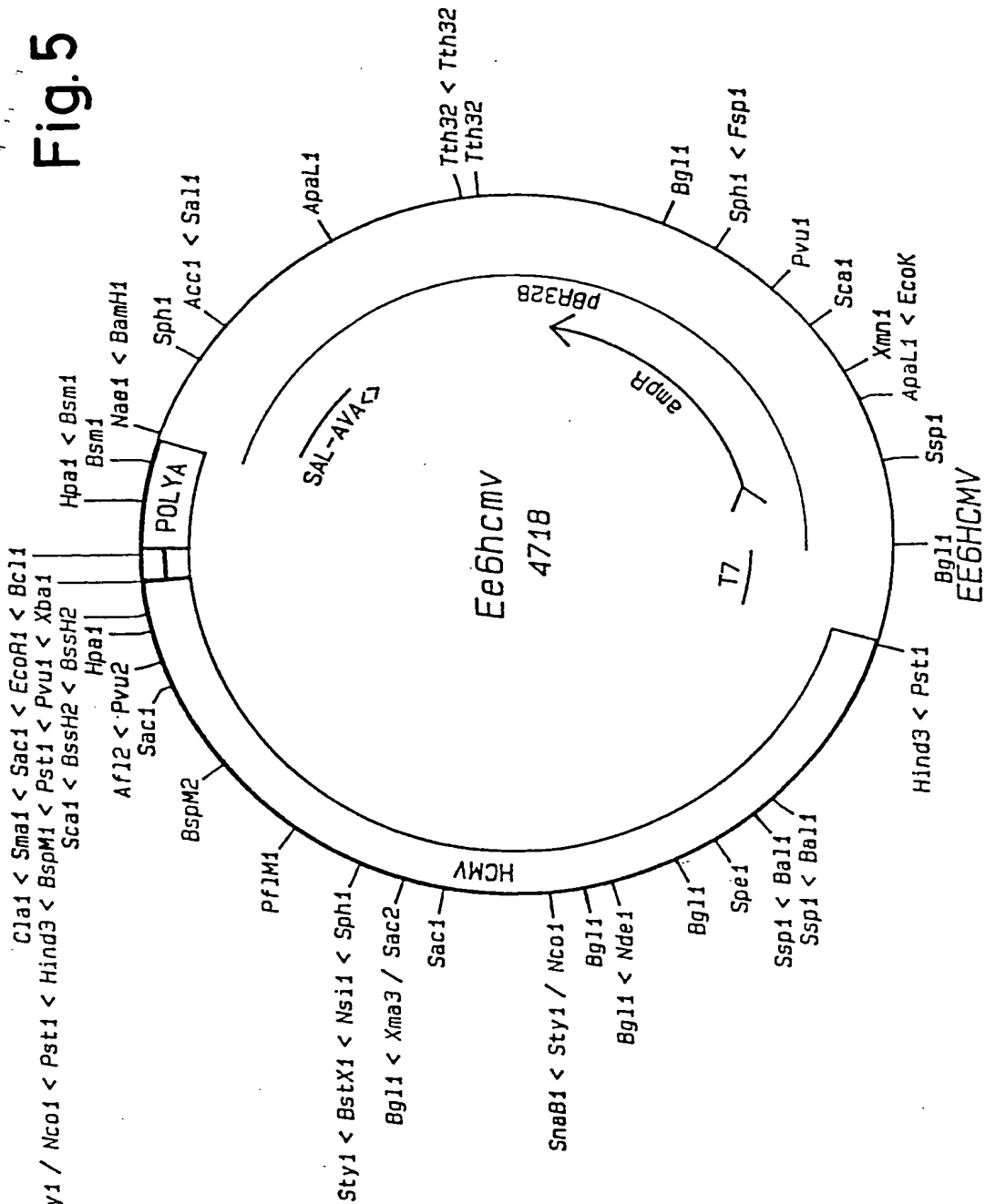
P DNS  
s sct  
t aoy  
1 111

2101-----+-----+-----+-----+-----+  
GTCTTTTCTGCAGTCACCGTCCTTGACACCATG  
CAGAAAAGACGTCAGTGGCAGGAAGTGTG

Fig.4F



$\text{ClaI} < \text{SmaI} < \text{SacI} < \text{EcoRI} < \text{BclI}$   
 $\text{StyI} / \text{NcoI} < \text{PstI} < \text{HindIII} < \text{BspMI} < \text{PstI} < \text{PvuI} < \text{XbaI}$   
 $\text{ScaI} < \text{BssHI} < \text{BssHI}$



INSERT HCMV PROMOTER FRAGMENT IN THE HIND3 SITE OF EE6

Mismatch: 0 MinCuts = 1 MaxCuts: 3